

FIG. 1

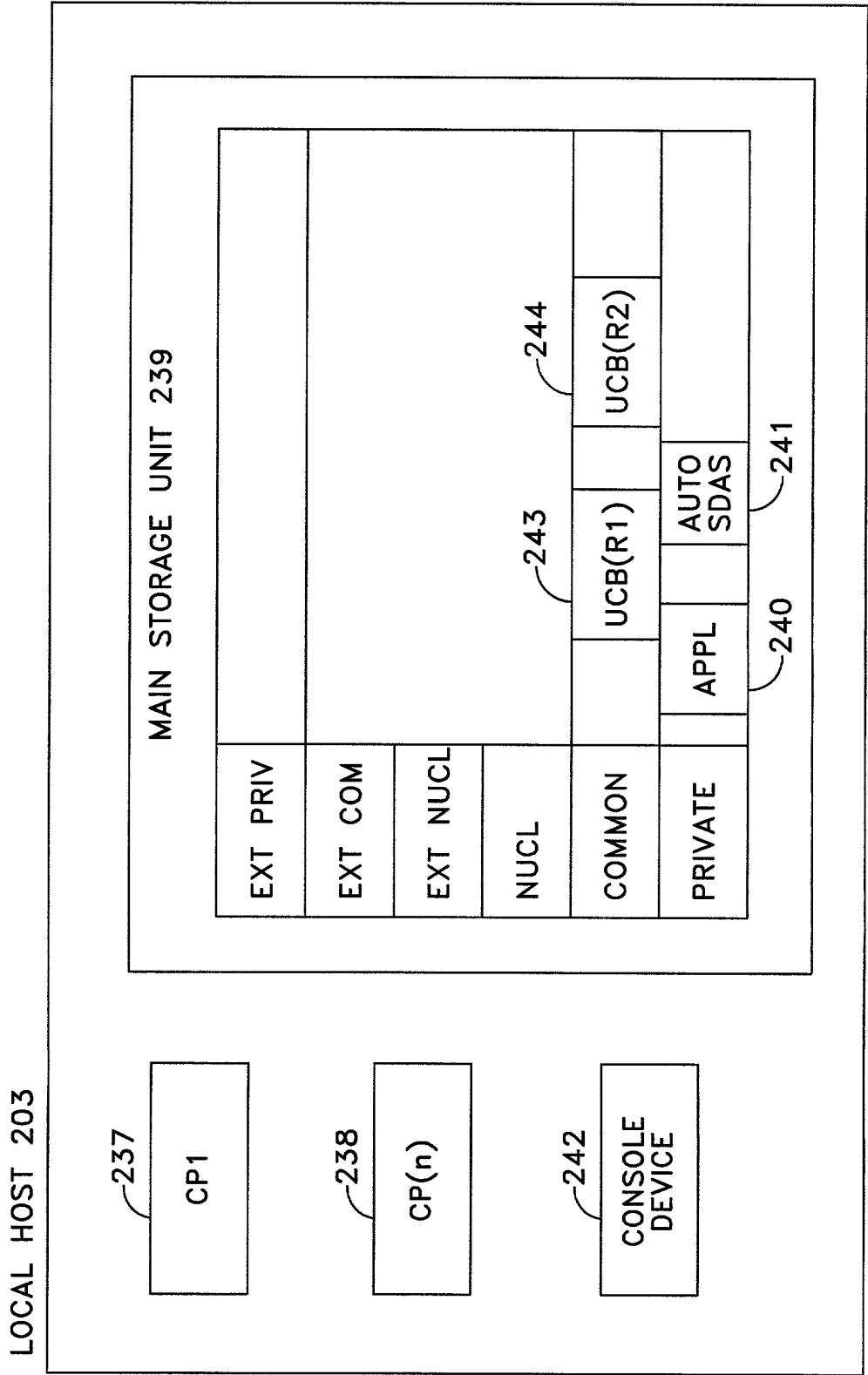


FIG. 2

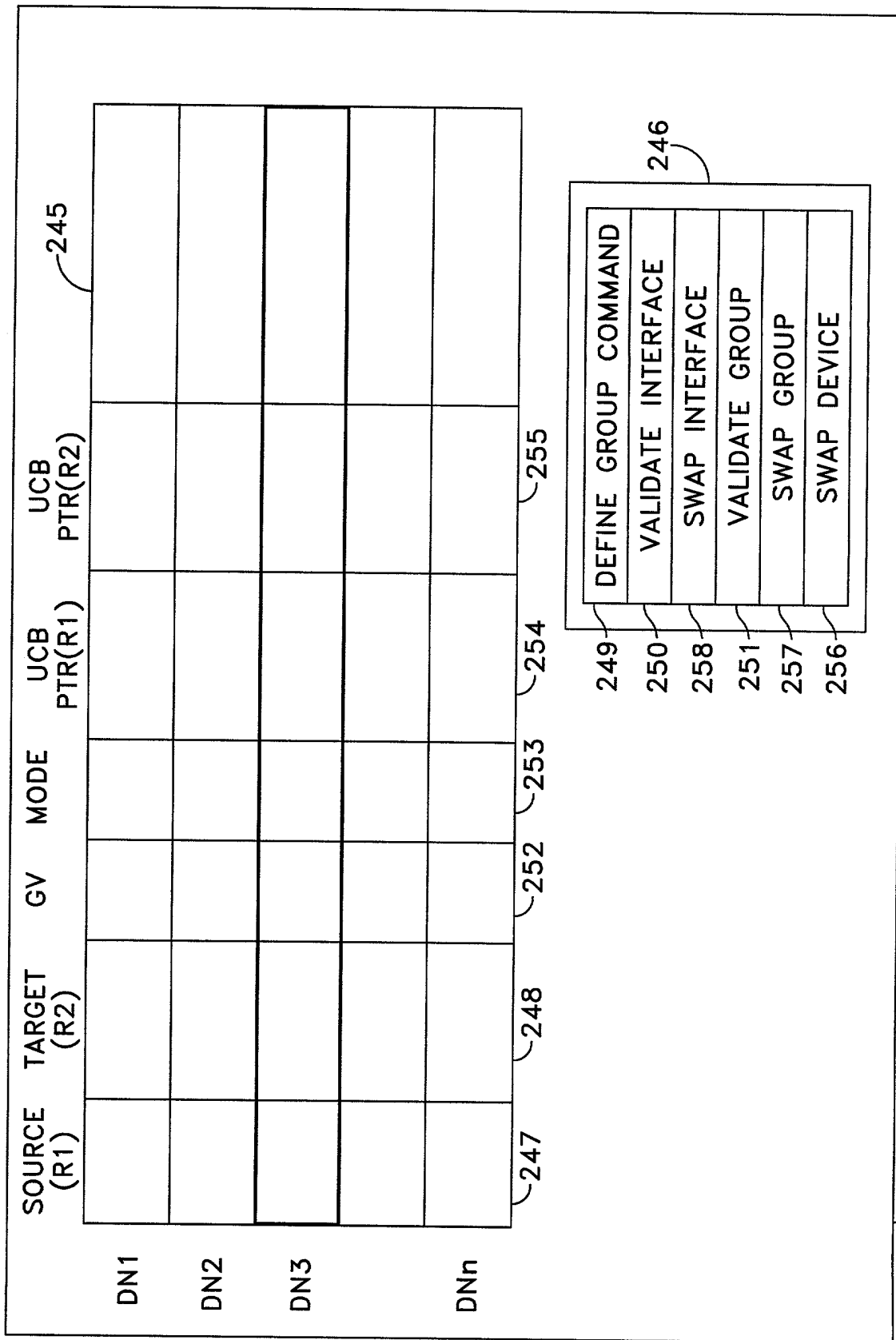


FIG. 3

RECEIVE A DEFINE GROUP COMMAND

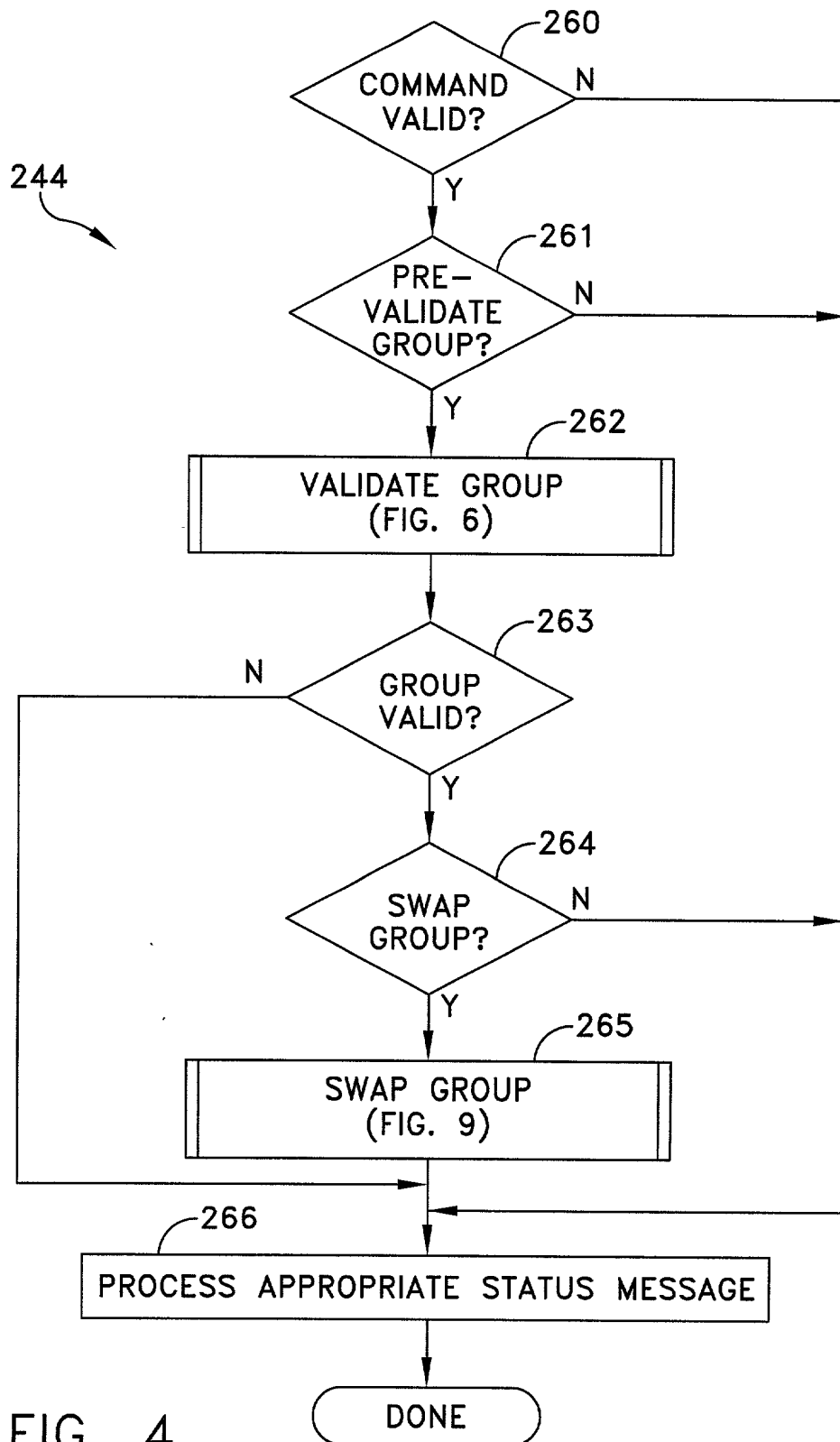


FIG. 4

VALIDATE INTERFACE

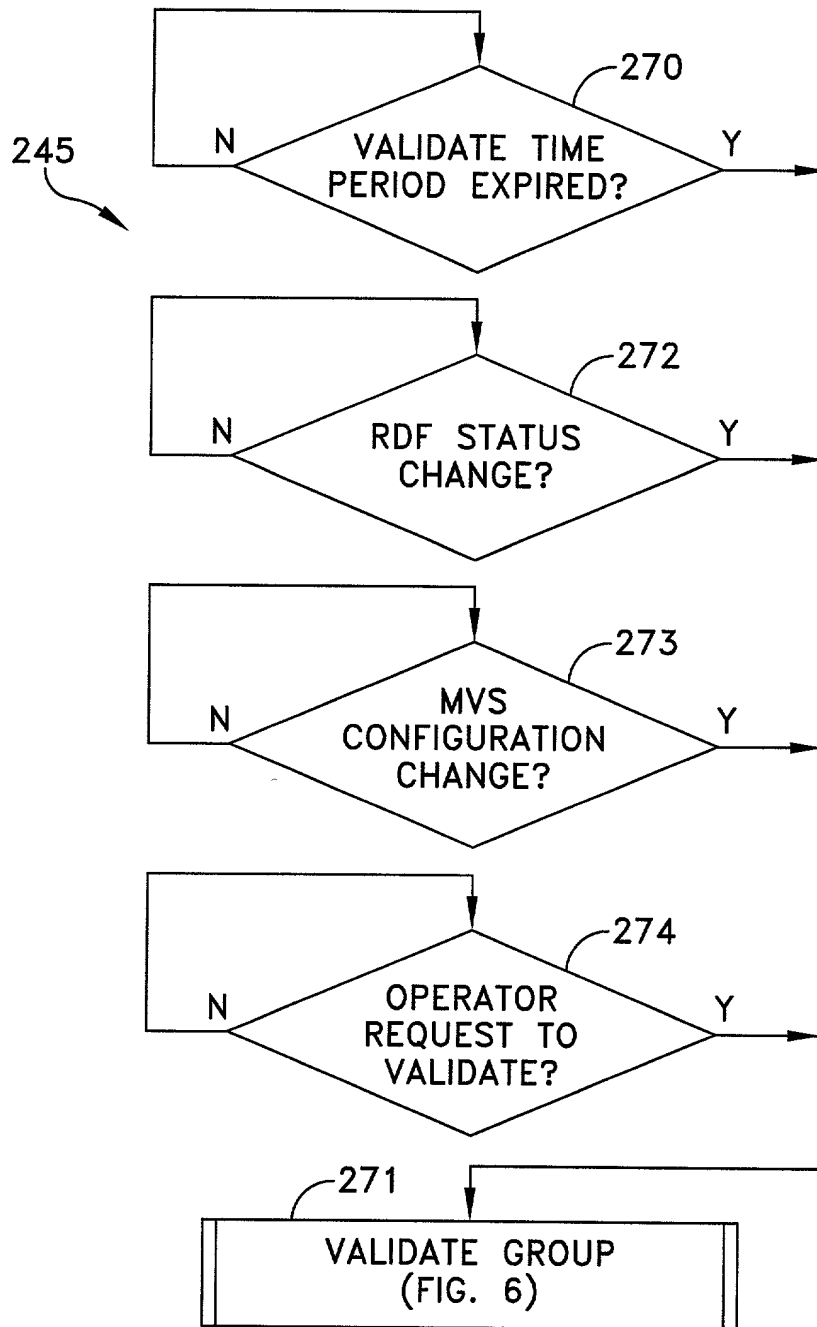


FIG. 5

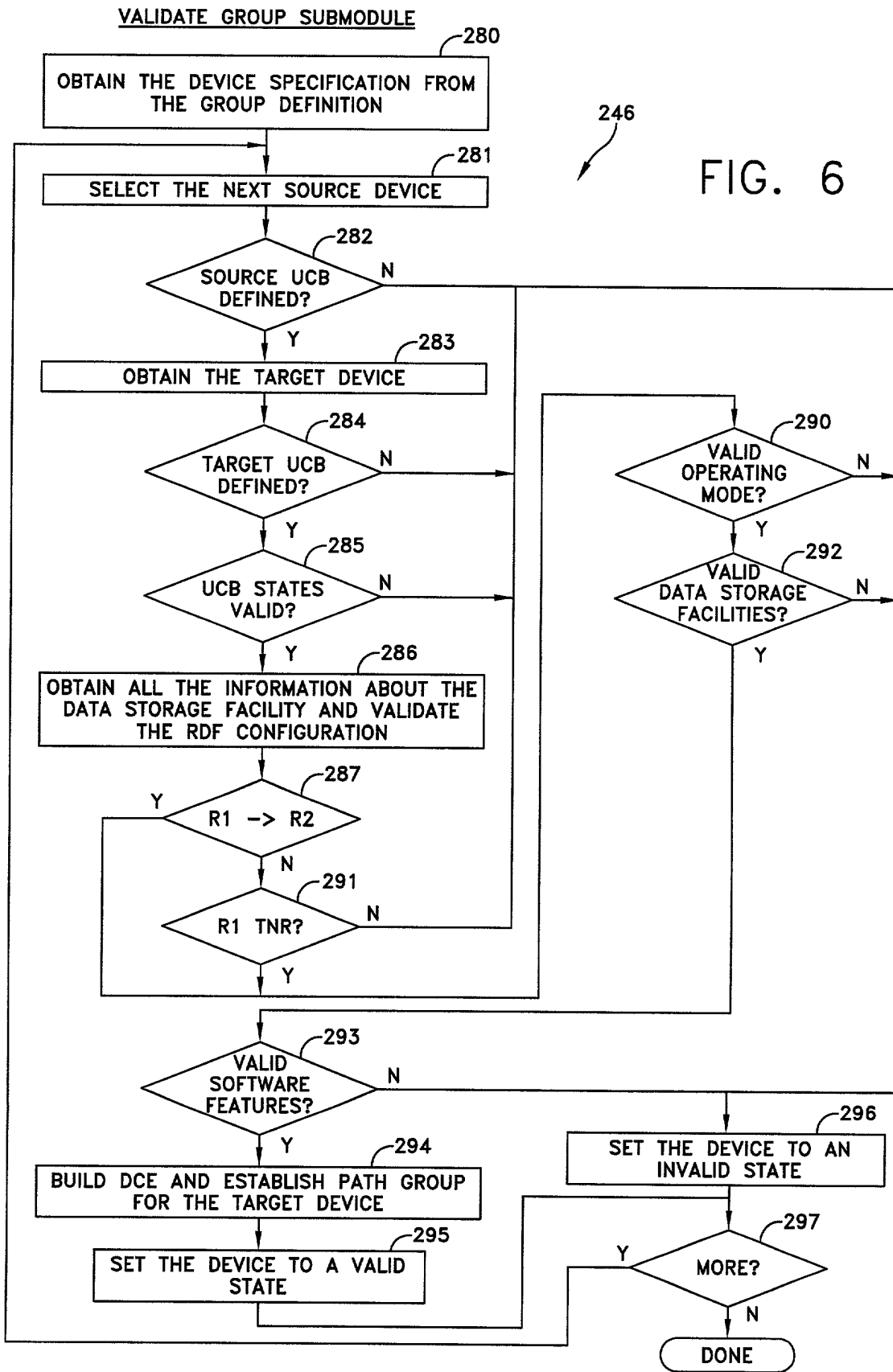


FIG. 6

SWAP INTERFACE

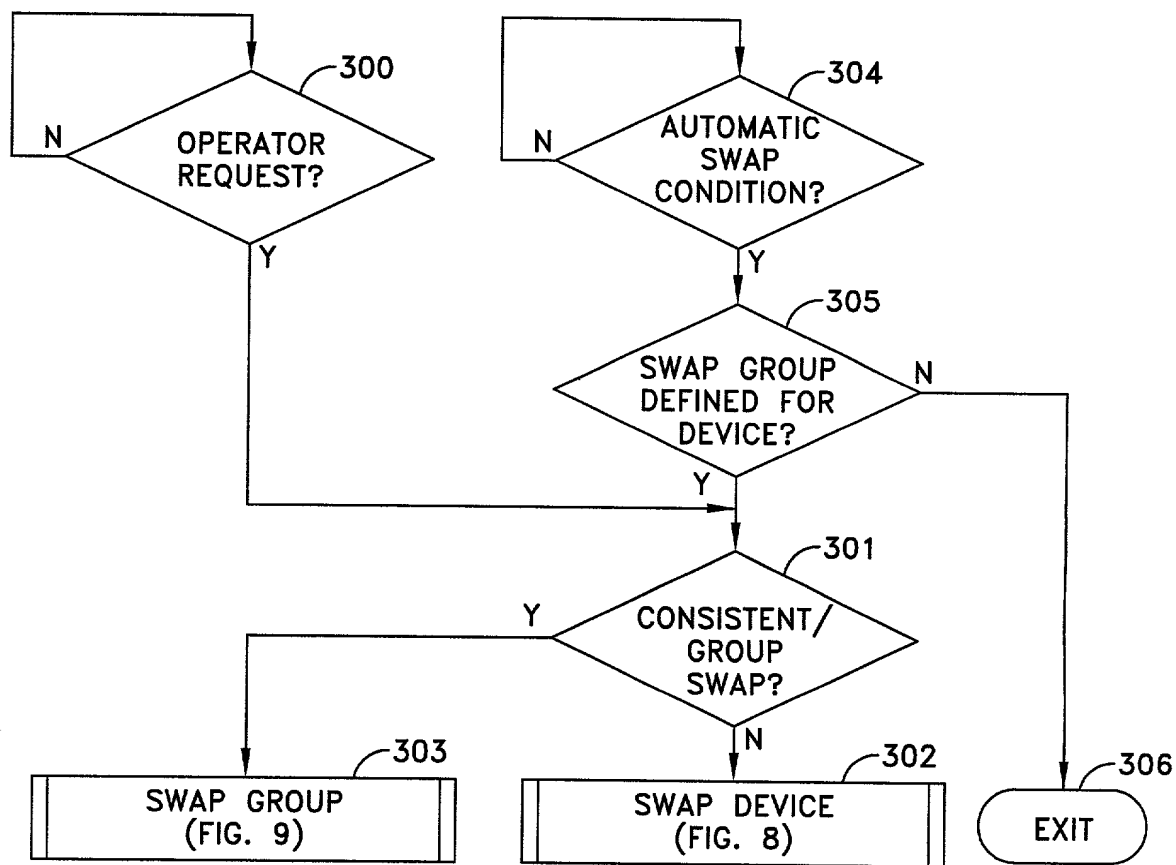


FIG. 7

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graph TD
    310[SWAP DEVICE] --> 311[RAISE THE IOS LEVEL FOR THE LOGICAL  
DEVICE IN THE SOURCE DATA STORAGE  
FACILITY]
    311 --> 340{OK?}
    340 -- Y --> 312[RECONFIGURE THE RDF CONFIGURATION]
    340 -- N --> 343[BACKOUT THE SWAP FOR THE  
DEVICE WITH A REVERSE SWAP  
OPERATION]
    312 --> 341{OK?}
    341 -- Y --> 313[SWAP THE UCB/DCE DATA ASSOCIATED  
WITH EACH OF THE LOCAL AND REMOTE  
LOGICAL DEVICES]
    341 -- N --> 343
    313 --> 342{OK?}
    342 -- Y --> 314{CONSISTENT  
SWAP?}
    342 -- N --> 343
    314 -- Y --> 315[LOWER THE IOS LEVEL FOR THE LOGICAL  
DEVICE IN THE SOURCE DATA STORAGE  
FACILITY]
    314 -- N --> 343
    315 --> 316[RESET THE SOURCE VOLUME STATUS]
    316 --> 317[SIGNAL COMPLETION OF THE SWAP]
    317 --> 318((SWAP  
COMPLETE))
    343 --> 344[SIGNAL AN ERROR IN THE  
SWAP OPERATION]
    344 --> 318

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FIG. 8


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graph TD
    320[OBTAIN THE VALID DEVICE SPECIFICATIONS] --> 321{CONSISTENT SWAP?}
    321 -- N --> 323[SELECT THE NEXT VALID SOURCE DAVIDE]
    321 -- Y --> 322[RAISE THE IOS LEVEL FOR ALL THE VALID DEVICES]
    322 --> 323
    323 --> 324[SWAP DEVICE  
(FIG. 8)]
    324 --> 325{SWAP SUCCESSFUL?}
    325 -- Y --> 326{CONSISTENT SWAP?}
    325 -- NO --> 326
    326 -- N --> 332[SELECT THE NEXT VALID SOURCE DEVICE]
    326 -- Y --> 327[BACK OUT ALL OTHER GROUP SWAPS  
THAT HAVE BEEN MADE WITH A  
REVERSE SWAP OPERATION]
    332 --> 333{CONTINUE?}
    333 -- Y --> 323
    333 -- N --> 330[LOWER THE IOS LEVEL FOR ALL  
THE VALID DEVICES]
    327 --> 330
    330 --> 331([SWAP GROUP  
COMPLETED])

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FIG. 9

FIG. 9